

### **DETAILED ACTION**

1. This Office action is responsive to Applicant's response to final Office action, filed on August 25, 2008.
2. Applicant's request for reconsideration of the finality of the rejection of the last Office action is persuasive and, therefore, the finality of that action is withdrawn.

### **EXAMINER'S AMENDMENT**

3. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Fredrick J. Dorchak on September 24, 2008.

The application has been amended as follows:

Claim 1 has been amended as follows:

Claim 1 (currently amended): Apparatus An apparatus for measuring hemodynamic parameters, by non-invasive, cuff based occlusive, blood pressure measurement, which apparatus comprises occlusive, oscillometric automatic blood pressure meter and units, determining the values of hemodynamic parameters, comprising

an oscillation wave separating and storing signal detector for detecting an oscillation signal, the sampling rate thereof is at least 200/heart cycle; and said signal detector has a storage unit resolution [[the]] that is organized at least 9 bit,

a digital anti-filter connected to the signal detector to compensate the distortions rising at [[the]] sampling, separating and digitizing the oscillation wave, detected by the signal detector.

an amplitude arithmetic unit connected to the anti-filter establishing an Augmentation Index (Aix); and

a synthesizing unit connected to the anti-filter establishing an Ejection Duration (ED).

Claim 5 has been amended as follows:

Claim 5 (currently amended): The apparatus according to claim 1, wherein the amplitude arithmetic unit, the synthesizing unit, a time-arithmetic unit, or an integrator unit are joined to a common program controller , and compiled to an analyzer.

Claim 10 has been amended as follows:

Claim 10 (currently amended): The method according to claim 12, wherein the sampling rate of the pressure oscillometric pulse wave detection is taken at least 180 samples per second, and the digitized signals of the oscillation curve are stored at least in 9 bit resolution.

Claim 11 has been amended as follows:

Claim 11 (currently amended): The method according to claim 12, wherein the cuff is set to +35 mmHG pressure, over the systolic pressure, a pulse wave velocity (PMV) value is calculated from a time shift of the main wave and the first reflex, respectively of a measured sternal notch and pubic bone distance of a patient, ~~are calculated the Pulse Wave Velocity (PMV) value~~, or the cuff is set at or near to a previously determined diastolic value ~~or near to this~~, and the received heart cycle curve is divided into two parts with the ED end-point, to constitute Systole Area Index (SAI) and Diastole Area Index (DAI) values.

***Allowable Subject Matter***

4. Claims 1-8 and 10-12 are allowed.
5. The following is an examiner's statement of reasons for allowance: No prior art of record teach or fairly suggest an apparatus for measuring hemodynamic parameters, by using non-invasive, cuff based occlusive blood pressure measurement, as cited in claim 1, which comprises a digital anti-filter to compensate the distortions rising at the sampling and separating and digitizing the oscillation wave to determine augmentation index and ejection duration.
6. No prior art of record teach or fairly suggest a method for measuring hemodynamic parameters, by using non-invasive, cuff based occlusive blood pressure measurement, as cited in claim 12, which comprises the steps of applying an anti-filter process for compensating the distortions appearing at sampling and calculating an

augmentation index and ejection duration.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anita Saidi whose telephone number is (571)270-3001. The examiner can normally be reached on Monday-Friday 9:30 am - 6:00 pm Est.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles Marmor, II can be reached on 571-272-4730. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Charles A. Marmor, II/  
Supervisory Patent Examiner  
Art Unit 3735

/A. S./  
Examiner, Art Unit 3735  
10/2/2008